DEPOSITION OF

1	UNITED STATES DISTRICT COURT
2	FOR THE EASTERN DISTRICT OF MASSACHUSETTS
3	
4	X :
5	IN RE: NEW ENGLAND : COMPOUNDING PHARMACY, INC. :
6	PRODUCTS LIABILITY LITIGATION: MDL NO. 2419 :
7	This Documents Relates to: : Master Docket : 1:13-MD-02419-RWZ
8	All Cases against the Box : Hill Defendants :
9	: X
10	
11	DEPOSITION OF
12	SHMUEL SHOHAM, M.D.
13	THURSDAY, JANUARY 19, 2017 10:00 a.m.
14	10.00 a.m.
15	Law Office of Peter G. Angelos One Charles Center
16	100 North Charles Street Suite 2200
17	Baltimore, MD 21201
18	
19	
20	
21	
22	
23	
24	
25	Before: Linda Bahur, RPR



DEPOSITION OF Pages 2..5

	IOLL SHOHA				
1	:	APPEARANCES	Page 2	1	Page 4 PROCEEDINGS
2	ON BEHALF OF TH				
3		S OF PETER G. ANGELOS, P.C.		2	Whereupon,
4		. Kasputys, Esquire rles Street		3	SHMUEL SHOHAM, M.D.
_	20th Floor			4	having been first duly sworn, was examined and
5	Baltimore,			5	testified as follows:
6	(410) 649-2 pkasputys@1			6	EXAMINATION BY MR. KIRBY:
7	phaspacyse.	iawpga.com		7	Q Morning, Dr. Shoham.
	ON BEHALF OF PL	AINTIFF THE ESTATE OF BRENDA ROZ	YEK:		
8	COHEN DIAG	TTELLA C DOTTL D C		8	A Morning.
9		ITELLA & ROTH, P.C. ren, Esquire		9	Q I introduced myself before off the
	2001 Market			10	record. But for the record, I'm Greg Kirby, and this
0	Suite 2900			11	is Catherine Steiner, and we represent Dr. Bhambhani,
1	(215) 567-	ia, PA 19103 3500		12	Dr. Bhambhani's LLC, and Box Hill Surgery Center, LLC.
_	mcoren@cpri			13	Can you spell your name for the record,
2					
3		X HILL SURGERY CENTER, RITU BHAM BHANI, M.D., LLC:	IBHANI,	14	state and spell your name for the record?
4	M.D., KIIO BIAN	DIANT, M.D., BEC.		15	A The name is Shmuel Shoham. And it's
		Z LAW, P.A.		16	spelled S-H-M-U-E-L, last name S-H-O-H-A-M.
5		Kirby, Esquire		17	Q And if I mispronounce it at all, just
6		Steiner, Esquire y Valley Road		18	correct me, okay? I will do my best.
	Suite 500			19	What's your address, your business address?
7	Towson, MD			20	
8	(410) 769-6 gkirby@pkla				A 1830 East Monument Street, Baltimore,
9	511127 05111	u. 100		21	Maryland.
0				22	Q Okay. You're under oath. You know that,
12				23	right? This is my only opportunity to find what your
23				24	opinions are, so I'm hopeful to get complete answers.
24				25	To that end, if I ask a question that you don't
25				==	10 0000 000, 11 1 000 0 1000 700 000 0
			Page 3		Page 5
1	77: dantamed Dame	INDEX	D	1	understand, can you just ask me to repeat it or
2	Videotaped Depos SHMUEL SHOHAM, I		Page	2	rephrase it?
4		n by Mr. Kirby	4	3	A Yes.
5	2114111140101		-	4	Q And if you answer a question, I'll assume
6				_	
7					that you understood the question, that you answered it
		EXHIBITS		5	that you understood the question, that you answered it
8		E X H I B I T S (Attached to the transcript)		6	as completely as you could. Is that fair?
	No.		Page		
9	No. Exhibit 1612-1	(Attached to the transcript) Notice of Deposition	5	6	as completely as you could. Is that fair?
9 0 1	No. Exhibit 1612-1 Exhibit 1612-2	(Attached to the transcript) Notice of Deposition Report of Dr. Shoham	5 7	6 7	as completely as you could. Is that fair? A Yes.
9 0 1 2	No. Exhibit 1612-1 Exhibit 1612-2 Exhibit 1612-3	(Attached to the transcript) Notice of Deposition Report of Dr. Shoham Curriculum vitae, 8/25/16	5 7 8	6 7 8	as completely as you could. Is that fair? A Yes. Q Okay. The court reporter is typing down everything that we say, and so she can't record nods
9 0 1 2	No. Exhibit 1612-1 Exhibit 1612-2 Exhibit 1612-3	(Attached to the transcript) Notice of Deposition Report of Dr. Shoham Curriculum vitae, 8/25/16 Trial and Deposition List,	5 7	6 7 8 9	as completely as you could. Is that fair? A Yes. Q Okay. The court reporter is typing down everything that we say, and so she can't record nods of the head or uh-hums, uh-uhs, that kind of stuff.
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0 1 2 3 4 5 6 6 7 8 9	No. Exhibit 1612-1 Exhibit 1612-2 Exhibit 1612-3 Exhibit 1612-4 Exhibit 1612-5 Exhibit 1612-6 Exhibit 1585-12	(Attached to the transcript) Notice of Deposition Report of Dr. Shoham Curriculum vitae, 8/25/16 Trial and Deposition List, 2011-Present Letter dated 10/20/16 re invoice Maryland Board of Pharmacy News Newsletter, Fall 2012 C I T E D New England Compounding Center Customer List since May 21, 201 Sorted by State Article, "Spinal and Paraspinal Fungal Infections Associated with Contaminated	5 7 8 26 29 3 45	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A Yes. Q Okay. The court reporter is typing down everything that we say, and so she can't record nods of the head or uh-hums, uh-uhs, that kind of stuff. So we just need to make sure we say yes or no. It's normal in conversation that we might end up talking over each other. I'll do my best not to do that, if you can do that as well. A Yes. Q And if you need a break at any point, just let me know and we can take a break. Okay? A Yes. Q The plaintiffs' counsel identified you as an expert on behalf of the plaintiffs. Is that your understanding as to why you are here?
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9 0 1 2 3 4 4 5 6 7 8 9	No. Exhibit 1612-1 Exhibit 1612-2 Exhibit 1612-3 Exhibit 1612-4 Exhibit 1612-5 Exhibit 1612-6 Exhibit 1585-12 Exhibit 1089	(Attached to the transcript) Notice of Deposition Report of Dr. Shoham Curriculum vitae, 8/25/16 Trial and Deposition List, 2011-Present Letter dated 10/20/16 re invoice Maryland Board of Pharmacy News Newsletter, Fall 2012 C I T E D New England Compounding Center Customer List since May 21, 201 Sorted by State Article, "Spinal and Paraspinal Fungal Infections Associated with Contaminated Methylprednisolone Injections"	5 7 8 26 29 5 45	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A Yes. Q Okay. The court reporter is typing down everything that we say, and so she can't record nods of the head or uh-hums, uh-uhs, that kind of stuff. So we just need to make sure we say yes or no. It's normal in conversation that we might end up talking over each other. I'll do my best not to do that, if you can do that as well. A Yes. Q And if you need a break at any point, just let me know and we can take a break. Okay? A Yes. Q The plaintiffs' counsel identified you as an expert on behalf of the plaintiffs. Is that your understanding as to why you are here? A Yes. (Exhibit No. 1612-1 was marked for
9 0 1 1 2 2 3 3 4 4 5 6 6 6 7 7 8 8 9 9 2 0 0 2 1 1 2 2 2	No. Exhibit 1612-1 Exhibit 1612-2 Exhibit 1612-3 Exhibit 1612-4 Exhibit 1612-5 Exhibit 1612-6 Exhibit 1585-12 Exhibit 1089	(Attached to the transcript) Notice of Deposition Report of Dr. Shoham Curriculum vitae, 8/25/16 Trial and Deposition List, 2011-Present Letter dated 10/20/16 re invoice Maryland Board of Pharmacy News Newsletter, Fall 2012 C I T E D New England Compounding Center Customer List since May 21, 201 Sorted by State Article, "Spinal and Paraspinal Fungal Infections Associated with Contaminated	5 7 8 26 29 5 45	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A Yes. Q Okay. The court reporter is typing down everything that we say, and so she can't record nods of the head or uh-hums, uh-uhs, that kind of stuff. So we just need to make sure we say yes or no. It's normal in conversation that we might end up talking over each other. I'll do my best not to do that, if you can do that as well. A Yes. Q And if you need a break at any point, just let me know and we can take a break. Okay? A Yes. Q The plaintiffs' counsel identified you as an expert on behalf of the plaintiffs. Is that your understanding as to why you are here? A Yes.



DEPOSITION OF Pages 42..45

	1 ages 42				
1	Page 42 going to give opinions about you were going to give	1	Page 44 applicable to prescribing prescription medicines," and		
2	opinions concerning being a medical doctor, in	2	then describes, I guess, some other opinions in here.		
3	general, not a pain specialist?	3	But what Maryland law are you referring to?		
4	MS. KASPUTYS: Objection.	4	A I can give you the specific newsletter		
5	A That's what we talked about. But they	5	is number 13 on page 5, Board of Pharmacy Newsletter,		
6	weren't telling me what to do. They were saying that	6	Fall 2012.		
7	that is something that I can do.	7	Q Okay. Do you have a copy of that?		
8	Q They said it's something you can do?	8	MS. KASPUTYS: That's in the documents that		
9	A As I recall. I don't recall the specific	9	were produced for you. Third tab.		
10	words.	10	MR. COREN: Third tab?		
11	Q And did that have to do with standard of	11	MR. KIRBY: I'm not saying you didn't send		
12	care or what did it have to do with?	12	it out. I'm just saying I don't see a copy of it.		
13	A Standard of care.	13			
14		14	MS. KASPUTYS: Greg, I'll give you one to look at.		
		15			
15	regards to that, as a medical doctor, and how it		MR. KIRBY: Okay.		
16	relates to a standard of care in this case.	16	MS. KASPUTYS: If I can get it out of the		
17	A So my opinions regarding standard of care	17	binder. There you go.		
18	in this case are in the report.	18	MR. KIRBY: Thanks.		
19	Q Okay. But can you point me to where it is?	19	MS. KASPUTYS: Oh, wait a minute. Let me		
20	A Page 3 is a specific example.	20	give you the rest of the pages. There you go.		
21	Q What part of page 3?	21	MR. KIRBY: I'd like to mark this as an		
22	A Third paragraph.	22	exhibit. Can we make a copy?		
23	Q Okay. So let's look at the first	23	MS. KASPUTYS: Go ahead. You can use that.		
24	paragraph, the first full paragraph on page 3. It	24	Just take it. I have a stapler if you need one.		
25	says, "The manner by which the contaminated steroids	25	BY MR. KIRBY:		
-	Page 43	1	Page 45		
1	reached patients did not always conform to the	1	Q Doctor, have you found the newsletter you		
2	reached patients did not always conform to the standards of care. A specific example is the method	2	Q Doctor, have you found the newsletter you were referring to in your binders?		
3	reached patients did not always conform to the standards of care. A specific example is the method and manner in which PF MPA from NECC was prescribed,	2 3	Q Doctor, have you found the newsletter you were referring to in your binders? A Yes. It's on page 7 of the newsletter		
2 3 4	reached patients did not always conform to the standards of care. A specific example is the method and manner in which PF MPA from NECC was prescribed, ordered, and administered at Box Hill Surgery Center	2 3 4	Q Doctor, have you found the newsletter you were referring to in your binders? A Yes. It's on page 7 of the newsletter that's called "Maryland Board of Pharmacy News," Fall		
2 3 4 5	reached patients did not always conform to the standards of care. A specific example is the method and manner in which PF MPA from NECC was prescribed, ordered, and administered at Box Hill Surgery Center in Maryland."	2 3 4 5	Q Doctor, have you found the newsletter you were referring to in your binders? A Yes. It's on page 7 of the newsletter that's called "Maryland Board of Pharmacy News," Fall 2012.		
2 3 4 5 6	reached patients did not always conform to the standards of care. A specific example is the method and manner in which PF MPA from NECC was prescribed, ordered, and administered at Box Hill Surgery Center in Maryland." So what do you mean by that? Like, be more	2 3 4 5 6	Q Doctor, have you found the newsletter you were referring to in your binders? A Yes. It's on page 7 of the newsletter that's called "Maryland Board of Pharmacy News," Fall 2012. Q I'm sorry, can you say that one more time?		
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2 3 4 5 6 7 8 9 10	reached patients did not always conform to the standards of care. A specific example is the method and manner in which PF MPA from NECC was prescribed, ordered, and administered at Box Hill Surgery Center in Maryland." So what do you mean by that? Like, be more specific. A So the way that the products were prescribed, according to the testimony that I've read, were that patients who had previously been seen at the surgical center, their names were provided as a list	2 3 4 5 6 7 8 9 10	Q Doctor, have you found the newsletter you were referring to in your binders? A Yes. It's on page 7 of the newsletter that's called "Maryland Board of Pharmacy News," Fall 2012. Q I'm sorry, can you say that one more time? A Maryland Board of Pharmacy News, Fall 2012, page 7. Q Okay. So we're going to mark this, it's the same thing you have, as 1612-6, for the record. (Exhibit No. 1612-6 was marked for		
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Now, it says in here "under Maryland law

25

I may. I'm not sure.

DEPOSITION OF Pages 54..57

SHI	MUEL SHOHAM, M.D. on 01/19/2017		Pages 5457
1	Page 54		Page 56
1 2	said, so	1	Q Okay. So you're not sure what
	BY MR. KIRBY:	3	relationship what type of relationship they had?
3	Q What is it specifically about these		A I'm not sure.
4	prescriptions? What did Dr. Bhambhani need to put on	4	Q Would you agree that Dr. Bhambhani was
5	each prescription on each prescription that would	5	ordering the MPA for general use in her ambulatory
6	have been different for patient A versus patient D?	6	surgery center?
7	A I think it depends on the patient. I can	7	MR. COREN: Objection as to form.
8	speak to an individual patient with an individual	8	A It seems that way, but I'm not sure of that
9	prescription.	9	because she was using specific patient names.
10	Q Is it your understanding that Dr. Bhambhani	10	Q Typically when we think of prescriptions,
11	was using the MPA at issue kind of in an office supply	11	we think of a patient getting a piece of paper and
12	situation?	12	taking it to CVS or the doctor sending us, you know, a
13	A Yes.	13	piece of paper to the pharmacy for the drug so that
14	Q And is it your understanding that it didn't	14	the patient can pick it up and take it home, right?
15	matter to her whether she used vial 1 or vial 12, it	15	A No.
16	was going to be the same for each patient?	16	Q Okay. Well, tell me what I mean, isn't
17	MR. COREN: Objection to form.	17	that generally what people think of when they think
18	A I don't know that.	18	about getting a prescription drug?
19	Q Okay. You don't know one way or the other?	19	MR. COREN: Objection as to form.
20	A I don't know that.	20	A I don't know what people think of.
21	Q Is there anything else that you have with	21	Q Okay. Regardless, that's not what we're
22	regards to your opinion about how Dr. Bhambhani	22	dealing with here, right? I mean, the patients in
23	breached the standard of care in ordering the drugs?	23	these cases never handled the MPA, right?
24	MS. KASPUTYS: Objection to form of the	24	A I don't know.
25	question.	25	Q Is it your understanding that
1	Page 55	1	Page 57
1	A Can you repeat your question?	1	Dr. Bhambhani well, tell me how you think she was
2	Q I'm just trying to exhaust your opinions.	2	ordering the drug from NECC.
3	Is there anything else that we haven't talked about	3	A Well, what I think that she was doing was
4	with regards to how Dr. Bhambhani ordered the drugs at	4	sending in lists of patients for whom the drug may or
5	issue that you say was wrong?	5	may not be given and ordering the drug for those
6	A If we can go to her deposition, or one of	6	patients and then using it either for those patients
7	the depositions mentioned getting medications from	7	or for other patients.
8	another clinic, I believe.	8	Q And what's your basis for saying that?
9	Q Okay. Feel free to look at her deposition.	9	A The deposition of Dr. Bhambhani and of
10	So feel free to keep looking if you want.	10	Nurse Vickers and the exhibits of the deposition.
11	But can you recall anything off the top of your head	11	Q Okay. So it's your understanding that she
12	about what you were referring to?	12	was ordering drugs is it your understanding that
13	A What I recall off the top of my head was	13	she was ordering drugs per the instructions of NECC?
14	that there were medications that were obtained by the	14	MR. COREN: Objection as to form. You can
15	Box Hill center from another surgical center.	15	answer.
16	Q Okay. And tell me what you believe was the	16	A I believe that it was a combination of the
17	problem with that. What's your criticism?	17	instructions from NECC and the advice that she had
18	A That if a medication for a specific person	18	received from the nurse she was working with then from
19	that's prescribed should be coming from the	19	the other center that she had worked with.
20	manufacturer or from a pharmacy, not from another	20	Q Okay. And she was ordering, using
21	center.	21	something that said a one sheet of paper that said
22	Q Do you have an understanding of what	22	"Prescription Order Form" at the top. Are you aware
23	Dr. Bhambhani's relationship was with that other	23	of that?

24

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Α



ambulatory surgery center you just referred to?

Not a good understanding.

Okay. And you're saying she was listing

DEPOSITION OF Pages 102..105

1	Page 102 spine okay. So let me step back.	1	Page 104 CSF as result of nonmeningitis inflammation around the
2	A lot of these patients may have already	2	spine?
3	had irritation or inflammation around the nerves of	3	A If the spinal fluid and the meninges are
4	the spine. That's what brought them to a healthcare	4	inflamed, that is meningitis. The definition of
5	provider to get injections. Fair enough?	5	meningitis is inflammation of the meninges.
6	MR. COREN: Objection to form.	6	Q Okay.
7	A I don't agree.	7	A For whatever cause.
8	Q Okay. What don't you agree with?	8	Q Would an epidural injection itself lead to
9	A I don't know the specifics of what brought	9	a recruitment of white blood cells to the area?
10	patients to the spinal to the pain specialist? Is	10	A Potentially.
11	that	11	Q When you say potentially, is there a
12	Q Correct.	12	percentage of patients that you would expect that?
13	A Irritation could be one cause, but there	13	A I don't know.
14	could be many reasons why patients end up seeing a	14	Q Might you have a recruitment of white cells
15	pain specialist.	15	that's greater than 5 after just a regular epidural
16	Q Okay. In an average everyday person who is	16	injection with no sequelae?
17	not suffering from back pain, is there some	17	A It's possible.
18	anticipated number of white cells that they may have	18	Q Okay. As we all sit here today, we're
19	in their cerebrospinal fluid if you were to test them?	19	breathing in mold spores, right?
20	A Less than 5 cells per cubic milliliter.	20	A Potentially.
21	Q So that could just be the average person	21	Q I mean, they're generally all around us?
22	that's not suffering any back problems?	22	A Potentially.
23	A That is a normal the expectation from a	23	Q Almost done. Famous last words.
24	noninflamed, noninfected person.	24	Can we agree that the contamination of the
25	Q You wouldn't be concerned or you	25	MPA with exserohilum rostratum, or fungus, was caused
1	Page 103 wouldn't concerned if you got that lab result, right?	1	by NECC? If you don't know, then that's fine, too.
1 2	9	1 2	•
	wouldn't concerned if you got that lab result, right?		by NECC? If you don't know, then that's fine, too.
2	wouldn't concerned if you got that lab result, right? Less than 5 white blood cells?	2	by NECC? If you don't know, then that's fine, too. A Ask the question again.
2 3	wouldn't concerned if you got that lab result, right? Less than 5 white blood cells? A I would not be concerned by that particular	2 3	by NECC? If you don't know, then that's fine, too. Ask the question again. Q Can we agree that the fact that the MPA was
2 3 4	wouldn't concerned if you got that lab result, right? Less than 5 white blood cells? A I would not be concerned by that particular number in general. There are patients where I would	2 3 4	by NECC? If you don't know, then that's fine, too. A Ask the question again. Q Can we agree that the fact that the MPA was contaminated with E. rostratum or some other microbe,
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DEPOSITION OF Pages 106..109

SHMUEL SHOHAM, M.D. on 01/19/2017			Pages 106109
	Page 106		Page 108
1	for multiple patients or for multiple procedures in	1	A Yes.
2	the same patient is not standard of care.	2	Q "And the push for cost-efficient care, a
3	Q Okay. And are you familiar with any	3	case can made for safely reusing a single-dose
4	literature that suggests that, I guess, "single-dose	4	medication." See that?
5	dose vials can be used on multiple patients under	5	A I see that.
6	certain circumstances with certain precautions that	6	Q And then under there, it's a description of
7	are taken"?	7	I'm just going to read it. You can follow along.
8	A I have seen a reference that is an opinion	8	It says, "If a practitioner chooses to reuse a
9	by some people.	9	single-dose medication, there must be strict
10	Q Okay. So you wouldn't disagree that some	10	safeguards in place that minimize the risk of
11	in medicine accept the practice of using single-dose	11	infection. These include using the medication for a
12	vials multiple times as long as they follow certain	12	limited number of patients and for a single day only,
13	precautions?	13	cleansing the stopper thoroughly between uses with
14	A That is an opinion. That is not what the	14	isopropyl alcohol or another suitable antimicrobial.
15	CDC recommends. The CDC recommends against it.	15	Refrigeration of vial between cases if there is a time
16	Q All right. If other reasonably prudent	16	gap between consecutive cases and discarding the vial
17	practitioners believe that it's okay to do it as long	17	if any breach or sterility is suspected."
18	as there are certain precautions taken, isn't that the	18	And then it goes on to say, of course, you
19	definition of standard practice?	19	only, you know, use a needle, one needle per patient,
20	MR. COREN: Objection as to form.	20	et cetera.
21	MS. KASPUTYS: Object to form.	21	If that is the process by which Dr.
22	Q Maybe not everyone agrees. You have one.	22	Bhambhani administers the drug and "reuses the
23	Someone else has a different opinion. But that	23	single-dose vial," she follows those precautions,
24	doesn't mean that just because it's different than	24	would you agree that according to this article, she's
25	your opinion that it's wrong, correct?	25	complying with an accepted standard of practice?
	Page 107		Page 109
1	A You said a lot of things there.	1	MR. STEINER: Objection as to form. You
2	Q I did, didn't I? There's not always one	2	can answer.
3	way to satisfy the standard of care, right? There's	3	A According to the CDC, in which I place more
4	sometimes more than one standard practice, right?	4	credence than this opinion, a single vial, a
5	A As a general statement?	5	single-dose vial should not be reused. And I don't
6	Q As general statement, right.	6	know why this clinician opined as he did. But even in
7	A There are different ways to do things.	7	2012, I would not say that this was a reasonable
8	Q And I want to just hand you what's been	8	opinion based on the history of multiple outbreaks
9	previously marked as 1619-10. It's an article. At	9	related with reusing of single-dose vials.
10	the top, just for the record, that says it's titled	10	Q Do you know Dr. Baker?
11	"The Price of Cost Savings," Ray M. Baker, in the	11	A No.
12	Clinical Journal of Pain, June of 2008.	12	Q Are you familiar with this journal?
13	And did you review in Dr. Bhambhani's	13	A I've heard of it.
14	deposition her description of the process and how she	14	Q Do you have an opinion, one way or the
15	administers the injection and what precautions she	15	other, whether this journal is a reasonably reliable
16	takes?	16	journal?
17	A Yes.	17	MR. COREN: Objection as to form.
18	Q Okay. So if you look at the second page of	18	A I don't.
19	this article, page 382, if you look at the right	19	Q And so you would disregard the expressions
20	column, the second paragraph up from the bottom, it	20	made here this literature?
21	starts off "If a practitioner chooses."	21	A I do not think that the statement of given
22	A Yes.	22	the reduced reimbursements for interventional pain
23	Q And actually if you look a few lines up	23	procedures and the push for cost-efficient care, a

24



from that, it says, "Given the reduced reimbursements

for interventional pain procedures." Do you see?

24

case can be made for safely reusing a single-dose

medication, and that this is something that could be